

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20040001498"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/15 08:05
L2	2	"5668987".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/15 08:06
S2	1057420	(filter adj1 engine) (inverse adj1 query adj1 engine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:10
S3	1473	S2 and (two adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:40
S4	358	S3 and (receiv\$4 adj1 (input data query information)) and (process\$4 execut\$5 adj1 (input data query information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:48
S5	81	S4 and conform	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:45
S8	80	S5 and general\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:45
S9	34	S8 and (general\$5 adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:46
S10	34	S9 and (@rlad < "20040219" or @ad < "20040219")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:18

EAST Search History

S11	304	S2 and (general\$4 adj1 filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 14:47
S12	86	S11 and (receiv\$4 adj1 (input data query information)) and (process\$4 execut\$5 adj1 (input data query information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:04
S13	13389	S2 and XML	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:04
S14	554	S13 and XPath	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:05
S15	507	S14 and input	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:05
S16	154	S15 and (input adj1 (query information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:05
S17	39	S16 and grammar	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:16
S18	1992	("filter engine" or "inverse query engine")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:17
S19	7	S18 and (XML and XPath)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:18
S20	3	S19 and (@rlad < "20040219" or @ad < "20040219")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/31 15:18

EAST Search History

S21	750	("filter engine" "search engine") and 707/104.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 15:19
S22	2	S21 and "sub-engine"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:17
S23	22	two near4 (filter adj1 engine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:11
S24	3	S23 and (database query)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:11
S25	4	two near (filter adj1 engines)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:12
S26	0	S25 and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:12
S27	3	optimize near3 "filter engine"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/05 13:17
S28	0	(sub-engine near quer\$3) and (filter near engine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 16:40
S29	0	(sub-engine near quer\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 16:40
S30	4	(sub-engine same quer\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 16:40

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S31	1243	optimized near filter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/14 22:33
S32	1	S31 near sub-engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/14 22:33
S33	2	S31 near engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/15 08:03
S34	2	"6993464".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/14 22:37
S35	2	"20050187907"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/14 22:37


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Relevance scale

1 [Indexing values of time sequences](#)

Ling Lin, Tore Risch, Martin Sköld, Dushan Badal
 November 1996 **Proceedings of the fifth international conference on Information and knowledge management CIKM '96**

Publisher: ACM PressFull text available: [.pdf\(802.28 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)2 [Integrating and customizing heterogeneous e-commerce applications](#)

Anat Eyal, Tova Milo
 August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.Full text available: [.pdf\(286.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce3 [Securing Name Servers on UNIX](#)

Nalneesh Gaur
 December 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.Full text available: [.html\(14.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Because the DNS plays such a vital role in the Internet, it is important that this service be protected and secured

4 [Dynamic expression trees and their applications](#)

Robert F. Cohen, Roberto Tamassia
 March 1991 **Proceedings of the second annual ACM-SIAM symposium on Discrete algorithms SODA '91**

Publisher: Society for Industrial and Applied MathematicsFull text available: [.pdf\(934.44 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Rank/select operations on large alphabets: a tool for text indexing

 Alexander Golynski, J. Ian Munro, S. Srinivasa Rao
January 2006 **Proceedings of the seventeenth annual ACM-SIAM symposium on Discrete algorithm SODA '06**

Publisher: ACM Press

Full text available:  [pdf\(161.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We consider a generalization of the problem of supporting rank and select queries on binary strings. Given a string of length n from an alphabet of size σ , we give the first representation that supports *rank* and *access* operations in $O(\lg \lg \sigma)$ time, and *select* in $O(1)$ time while using the optimal $n \lg \sigma + o(n \lg \sigma)$ bits. The best known previous structure for this problem required $O(\lg \sigma)$ time, for ...

6 Scaling up the semantic web: On labeling schemes for the semantic web

 Vassilis Christophides, Dimitris Plexousakis, Michel Scholl, Sotirios Tourtounis
May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available:  [pdf\(294.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper focuses on the optimization of the navigation through voluminous subsumption hierarchies of topics employed by Portal Catalogs like Netscape Open Directory (ODP). We advocate for the use of labeling schemes for modeling these hierarchies in order to efficiently answer queries such as subsumption check, descendants, ancestors or nearest common ancestor, which usually require costly transitive closure computations. We first give a qualitative comparison of three main families of schemes ...

7 Searching in metric spaces

 Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(916.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

8 A methodology for creating user views in database design

 Veda C. Storey, Robert C. Goldstein
September 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The View Creation System (VCS) is an expert system that engages a user in a dialogue about the information requirements for some application, develops an Entity-Relationship model for the user's database view, and then converts the E-R model to a set of Fourth Normal Form relations. This paper describes the knowledge base of VCS. That is, it presents a formal methodology, capable of mechanization as a computer program, for

accepting requirements from a user, identifying and resolving incons ...

9 Accurate and efficient predicate analysis with binary decision diagrams

 John W. Sias, Wen-Mei W. Hwu, David I. August

December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture MICRO 33**

Publisher: ACM Press

Full text available:  pdf(336.92 KB)

 ps(6.25 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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10 Time series similarity measures (tutorial PM-2)

 Dimitrios Gunopulos, Gautam Das

August 2000 **Tutorial notes of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '00**

Publisher: ACM Press

Full text available:  pdf(1.42 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



11 WebView materialization

 Alexandros Labrinidis, Nick Roussopoulos

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  pdf(195.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



A *WebView* is a web page automatically created from base data typically stored in a DBMS. Given the multi-tiered architecture behind database-backed web servers, we have the option of materializing a *WebView* inside the DBMS, at the web server, or not at all, always computing it on the fly (virtual). Since *WebViews* must be up to date, materialized *WebViews* are immediately refreshed with every update on the base data. In this paper we compare the three materialization policies (materializ ...



12 System Administration

Marjorie Richardson

December 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(4.25 KB) Additional Information: [full citation](#), [index terms](#)



13 Nearest neighbor queries in metric spaces

 Kenneth L. Clarkson

May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing STOC '97**

Publisher: ACM Press

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 Security issues with TCP/IP

 Renqi Li, E. A. Unger

June 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  pdf(801.12 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)



An introduction to network security , basic definitions and a brief discussion of the architecture of TCP/IP as well as the Open System Interconnection(OSI) Reference Model open the paper. The relationship between TCP/IP and of some OSI layers is described. An indepth look is provided to the major protocols in TCP/IP suite and the security features and problems in this suite of protocols. The security problems are discussed in the context of the protocol services.

Keywords: TCP/IP, Unix, network security, security

15 An experimental active memory based I/O subsystem

 Abhaya Asthana, Mark Cravatts, Paul Krzyzanowski

September 1994 **ACM SIGARCH Computer Architecture News**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(577.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We describe an I/O subsystem based on an active memory called SWIM, designed for efficient storage and manipulation of data structures. The key architectural idea in SWIM is to put some processing logic inside each memory chip that allows it to perform data manipulation operations locally and to communicate with a disk or a communication line through a backend port. The processing logic is specially designed to perform operations such as pointer dereferencing, memory indirection, searching and b ...

16 Lineage retrieval for scientific data processing: a survey

 Rajendra Bose, James Frew

March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(728.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is thus imperative for the complete documentation of scientific work. Researchers are effectively prevented from determining, preserving, or providing the lineage of the computational data products they use and create, however, because of the lack of a definitive model for lineage ...

Keywords: Data lineage, audit, data provenance, scientific data, scientific workflow

17 Object-based and image-based object representations

 Hanan Samet

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An overview is presented of object-based and image-based representations of objects by their interiors. The representations are distinguished by the manner in which they can be used to answer two fundamental queries in database applications: (1) Feature query: given an object, determine its constituent cells (i.e., their locations in space). (2) Location query: given a cell (i.e., a location in space), determine the identity of the object (or objects) of which it is a member as well as the re ...

Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), image space, location query, object space, octrees, pyramids, quadtrees, space-filling curves, spatial databases

18 The design and implementation of a next generation name service for the internet

Venugopalan Ramasubramanian, Emin Gün Sirer

 August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(472.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Name services are critical for mapping logical resource names to physical resources in large-scale distributed systems. The Domain Name System (DNS) used on the Internet, however, is slow, vulnerable to denial of service attacks, and does not support fast updates. These problems stem fundamentally from the structure of the legacy DNS. This paper describes the design and implementation of the Cooperative Domain Name System (CoDoNS), a novel name service, which provides high lookup performance thro ...

Keywords: DNS, peer to peer, proactive caching

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1 [Integrating and customizing heterogeneous e-commerce applications](#)

Anat Eyal, Tova Milo

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(286.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

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Keywords: Application integration, Data integration, Electronic commerce

2 [Scaling up the semantic web: On labeling schemes for the semantic web](#)

Vassilis Christophides, Dimitris Plexousakis, Michel Scholl, Sotirios Tourtounis

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3 [BPF+: exploiting global data-flow optimization in a generalized packet filter](#)

[architecture](#)

Andrew Begel, Steven McCanne, Susan L. Graham

August 1999 **ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A *packet filter* is a programmable selection criterion for classifying or selecting packets

from a packet stream in a generic, reusable fashion. Previous work on packet filters falls roughly into two categories, namely those efforts that investigate flexible and extensible filter abstractions but sacrifice performance, and those that focus on low-level, optimized filtering representations but sacrifice flexibility. Applications like network monitoring and intrusion detection, however, requ ...

4 Lineage retrieval for scientific data processing: a survey

 Rajendra Bose, James Frew
March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1

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Keywords: Data lineage, audit, data provenance, scientific data, scientific workflow

5 Literature-based discovery on the World Wide Web

 Michael Gordon, Robert K. Lindsay, Weiguo Fan
November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: .pdf(119.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Previous research has shown that researchers can generate medical hypotheses by using computers to analyze several, seemingly unrelated, medical literatures. In this work we suggest broader application for the ideas of literature-based discovery. Specifically, we suggest that literature-based discovery can be fruitful in areas other than medicine; that in addition to finding "cures" for "problems," literature-based discovery offers the possibility of finding new problems for existing technologie ...

Keywords: Literature-based discovery

6 Accurate and efficient predicate analysis with binary decision diagrams

 John W. Sias, Wen-Mei W. Hwu, David I. August
December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture MICRO 33**

Publisher: ACM Press

Full text available: .pdf(336.92 KB) .ps(6.25 MB)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

7 Computational Approaches to Image Understanding

 Michael Brady
March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: .pdf(10.04 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Rank/select operations on large alphabets: a tool for text indexing

 Alexander Golynski, J. Ian Munro, S. Srinivasa Rao
 January 2006 **Proceedings of the seventeenth annual ACM-SIAM symposium on Discrete algorithm SODA '06**

Publisher: ACM Press

Full text available:  pdf(161.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We consider a generalization of the problem of supporting rank and select queries on binary strings. Given a string of length n from an alphabet of size σ , we give the first representation that supports *rank* and *access* operations in $O(\lg \lg \sigma)$ time, and *select* in $O(1)$ time while using the optimal $n \lg \sigma + o(n \lg \sigma)$ bits. The best known previous structure for this problem required $O(\lg \sigma)$ time, for ...

9 Designing and Optimizing a Scalable CORBA Notification Service

 Pradeep Gore, Ron Cytron, Douglas Schmidt, Carlos O'Ryan
 August 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN workshop on Languages, compilers and tools for embedded systems LCTES '01 , Proceedings of the 2001 ACM SIGPLAN workshop on Optimization of middleware and distributed systems OM '01**, Volume 36 Issue 8

Publisher: ACM Press

Full text available:  pdf(247.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many distributed applications require a scalable event-driven communication model that decouples suppliers from consumers and simultaneously supports advanced quality of service (QoS) properties and event filtering mechanisms. The CORBA Notification Service provides a publish/subscribe mechanism that is designed to support scalable event-driven communication by routing events efficiently between many suppliers and consumers, enforcing various QoS properties (such as reliability, priority, orderi ...

10 Using annotations to reduce dynamic optimization time

 Chandra Krintz, Brad Calder
 May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation PLDI '01**, Volume 36 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.78 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamic compilation and optimization are widely used in heterogenous computing environments, in which an intermediate form of the code is compiled to native code during execution. An important trade off exists between the amount of time spent dynamically optimizing the program and the running time of the program. The time to perform dynamic optimizations can cause significant delays during execution and also prohibit performance gains that result from more complex optimization.

11 WebView materialization

 Alexandros Labrinidis, Nick Roussopoulos
 May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

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A *WebView* is a web page automatically created from base data typically stored in a DBMS. Given the multi-tiered architecture behind database-backed web servers, we have the option of materializing a *WebView* inside the DBMS, at the web server, or not at all, always computing it on the fly (virtual). Since *WebViews* must be up to date, materialized *WebViews* are immediately refreshed with every update on the base data. In this paper we compare the three materialization policies (materializ ...

12 The optimization assistant—helping engineers explore designs through collaboration  Ted LongDecember 1998 **Proceedings of the 4th international conference on Intelligent user interfaces IUI '99****Publisher:** ACM PressFull text available:  [pdf\(150.17 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** advisor, collaboration, intelligent assistant**13 Measurement tools: Introducing scalability in network measurement: toward 10 Gbps**  **with commodity hardware**

Loris Degioanni, Gianluca Varenni

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement IMC '04****Publisher:** ACM PressFull text available:  [pdf\(558.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The capacity of today's network links, along with the heterogeneity of their traffic, is rapidly growing, more than the workstation's processing power. This makes the task of measuring traffic more problematic every day, especially when off-the-shelf hardware is used. A general solution adopted by the computer industry to achieve better performance is to partition the processing among different computing units, exploiting the implicit or explicit parallelism available on today workstations. P ...

Keywords: high performance, scalability, software tools**14 Search potpourri: Efficient search engine measurements**  Ziv Bar-Yossef, Maxim GurevichMay 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07****Publisher:** ACM PressFull text available:  [pdf\(271.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We address the problem of measuring global quality metrics of search engines, like corpus size, index freshness, and density of duplicates in the corpus. The recently proposed estimators for such metrics [2, 6] suffer from significant bias and/or poor performance, due to inaccurate approximation of the so called document degrees. We present two new estimators that are able to overcome the bias introduced by approximate degrees. Our estimators are based on a careful implementation of an approximat ...

Keywords: corpus size estimation, evaluation, search engines**15 A Hierarchy of Search Engines Based on ODP Concepts**

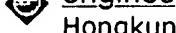
Venkata Sudhakar Reddy Ch, Banshi. D. Chaudhary

December 2006 **Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence WI '06****Publisher:** IEEE Computer SocietyFull text available:  [pdf\(197.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper reports a query probing strategy which exploits concept hierarchy of Open Directory Project (ODP) to discover knowledge about search engines. In this strategy, keywords are selected on the basis of frequency analysis of words appearing in descriptions of URLs associated with a concept. The selected keywords, their senses and the words adjacent to these keywords are used in construction of query phrases. Each search engine is probed with these query phrases and their first page result ...



16 Research track papers: Mining templates from search result records of search engines



Hongkun Zhao, Weiyi Meng, Clement Yu

August 2007 **Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '07**

Publisher: ACM Press

Full text available: [pdf\(972.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Metasearch engine, Comparison-shopping and Deep Web crawling applications need to extract search result records enwrapped in result pages returned from search engines in response to user queries. The search result records from a given search engine are usually formatted based on a template. Precisely identifying this template can greatly help extract and annotate the data units within each record correctly. In this paper, we propose a graph model to represent record template and develop a dom ...

Keywords: information extraction, search engine, wrapper generation

17 Web resource crawling and searching: Identifying redundant search engines in a very



large scale metasearch engine context

Ronak Desai, Qi Yang, Zonghuan Wu, Weiyi Meng, Clement Yu

November 2006 **Proceedings of the eighth ACM international workshop on Web information and data management WIDM '06**

Publisher: ACM Press

Full text available: [pdf\(299.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

For a given set of search engines, a search engine is redundant if its searchable contents can be found from other search engines in this set. In this paper, we propose a method to identify redundant search engines in a very large-scale metasearch engine context. The general problem is equivalent to an NP hard problem -- the set-covering problem. Due to the large number of search engines that need to be considered and the large sizes of these search engines, approximate solutions must be develop ...

Keywords: redundant search engine identification, set-covering problem



18 User studies and user interfaces: Agreeing to disagree: search engines and their

public interfaces

Frank McCown, Michael L. Nelson

June 2007 **Proceedings of the 2007 conference on Digital libraries JCDL '07**

Publisher: ACM Press

Full text available: [pdf\(308.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Google, Yahoo and MSN all provide both web user interfaces (WUIs) and application programming interfaces (APIs) to their collections. Whether building collections of resources or studying the search engines themselves, the search engines request that researchers use their APIs and not "scrape" the WUIs. However, anecdotal evidence suggests the interfaces produce different results. We provide the first in depth quantitative analysis of the results produced by the Google, MSN and Yahoo API and ...

Keywords: API, distance measurement, search engine interfaces, search engine results



19 Querying and web: Efficient query processing in geographic web search engines

Yen-Yu Chen, Torsten Suel, Alexander Markowetz

June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**

Publisher: ACM Press

Full text available: [pdf\(296.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Geographic web search engines allow users to constrain and order search results in an

intuitive manner by focusing a query on a particular geographic region. Geographic search technology, also called *local search*, has recently received significant interest from major search engine companies. Academic research in this area has focused primarily on techniques for extracting geographic knowledge from the web. In this paper, we study the problem of efficient query processing in scalable geogr ...

20 Business-to-business e-commerce track: The impact of search engine optimization 

 on online advertising market

Bo Xing, Zhangxi Lin

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available:  [pdf\(612.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Online advertising market is becoming a popular area of academic research. Among other types of advertising, search engine advertising is leading the growth in terms of revenue. In general, there are two types of search engine advertising: paid placement and search engine optimization (SEO). This study aims to analyze the condition under which SEO exist and further, its impact on the advertising market. With an analytical model, several interesting insights are generated. The results of the stud ...

Keywords: online advertising, paid placement, search engine, search engine marketing, search engine optimization, sponsored links

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1 [Querying and web: Efficient query processing in geographic web search engines](#)

Yen-Yu Chen, Torsten Suel, Alexander Markowetz
 June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**

Publisher: ACM PressFull text available: [pdf\(296.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Geographic web search engines allow users to constrain and order search results in an intuitive manner by focusing a query on a particular geographic region. Geographic search technology, also called *local search*, has recently received significant interest from major search engine companies. Academic research in this area has focused primarily on techniques for extracting geographic knowledge from the web. In this paper, we study the problem of efficient query processing in scalable geogr ...

2 [Coverage, relevance, and ranking: The impact of query operators on Web search](#)

[engine results](#)

Caroline M. Eastman, Bernard J. Jansen
 October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Publisher: ACM PressFull text available: [pdf\(373.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research has reported that about 10% of Web searchers utilize advanced query operators, with the other 90% using extremely simple queries. It is often assumed that the use of query operators, such as Boolean operators and phrase searching, improves the effectiveness of Web searching. We test this assumption by examining the effects of query operators on the performance of three major Web search engines. We selected one hundred queries from the transaction log of a Web search servic ...

Keywords: Boolean operators, Relative precision, Web results, coverage, query operators, ranking, search engines

3 [Transparent Queries: investigation users' mental models of search engines](#)

Jack Muramatsu, Wanda Pratt
 September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '01**

Publisher: ACM PressFull text available: [pdf\(329.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Typically, commercial Web search engines provide very little feedback to the user concerning how a particular query is processed and interpreted. Specifically, they apply

key query transformations without the users knowledge. Although these transformations have a pronounced effect on query results, users have very few resources for recognizing their existence and understanding their practical importance. We conducted a user study to gain a better understanding of users knowledge of and reac ...

4 Learning search engine specific query transformations for question answering

 Eugene Agichtein, Steve Lawrence, Luis Gravano

April 2001 **Proceedings of the 10th international conference on World Wide Web
WWW '01**

Publisher: ACM Press

Full text available:  pdf(205.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: information retrieval, query expansion, question answering, web search

5 Research papers: streams and pipelined processing: QPipe: a simultaneously pipelined relational query engine

 Stavros Harizopoulos, Vladislav Shkapenyuk, Anastassia Ailamaki

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**

Publisher: ACM Press

Full text available:  pdf(506.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Relational DBMS typically execute concurrent queries independently by invoking a set of operator instances for each query. To exploit common data retrievals and computation in concurrent queries, researchers have proposed a wealth of techniques, ranging from buffering disk pages to constructing materialized views and optimizing multiple queries. The ideas proposed, however, are inherently limited by the query-centric philosophy of modern engine designs. Ideally, the query engine should proactive ...

6 Indexing and querying: Three-level caching for efficient query processing in large

Web search engines

 Xiaohui Long, Torsten Suel

May 2005 **Proceedings of the 14th international conference on World Wide Web
WWW '05**

Publisher: ACM Press

Full text available:  pdf(243.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Large web search engines have to answer thousands of queries per second with interactive response times. Due to the sizes of the data sets involved, often in the range of multiple terabytes, a single query may require the processing of hundreds of megabytes or more of index data. To keep up with this immense workload, large search engines employ clusters of hundreds or thousands of machines, and a number of techniques such as caching, index compression, and index and query pruning are used to im ...

Keywords: Web search, caching, inverted index

7 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

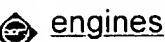
Full text available:  pdf(351.86 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import

or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

8 Information Retrieval: Predictive caching and prefetching of query results in search engines



Ronny Lempel, Shlomo Moran

May 2003 **Proceedings of the 12th international conference on World Wide Web
WWW '03**

Publisher: ACM Press

Full text available: [pdf\(212.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the caching of query result pages in Web search engines. Popular search engines receive millions of queries per day, and efficient policies for caching query results may enable them to lower their response time and reduce their hardware requirements. We present PDC (probability driven cache), a novel scheme tailored for caching search results, that is based on a probabilistic model of search engine users. We then use a trace of over seven million queries submitted to the search engine A ...

Keywords: caching, query processing and optimization

9 Interaction: Investigating the querying and browsing behavior of advanced search engine users



Ryan W. White, Dan Morris

July 2007 **Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '07**

Publisher: ACM Press

Full text available: [pdf\(316.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One way to help all users of commercial Web search engines be more successful in their searches is to better understand what those users with greater search expertise are doing, and use this knowledge to benefit everyone. In this paper we study the interaction logs of advanced search engine users (and those not so advanced) to better understand how these user groups search. The results show that there are marked differences in the queries, result clicks, post-query browsing, and search succes ...

Keywords: advanced search features, expert searching, query formulation, query syntax

10 Adaptively constructing the query interface for meta-search engines



Lieming Huang, Thiel Ulrich, Matthias Hemmje, Erich J. Neuhold

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces IUI '01**

Publisher: ACM Press

Full text available: [pdf\(260.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the exponential growth of information on the Internet, current information integration systems have become more and more unsuitable for this "Internet age" due to the great diversity among sources. This paper presents a constraint-based query user interface model, which can be applied to the construction of dynamically generated adaptive user interfaces for meta-search engines.

11

Query term disambiguation for Web cross-language information retrieval using a

 search engine

Akira Maeda, Fatiha Sadat, Masatoshi Yoshikawa, Shunsuke Uemura
November 2000 **Proceedings of the fifth international workshop on on Information retrieval with Asian languages IRAL '00**

Publisher: ACM Press

Full text available:  [pdf\(736.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

With the worldwide growth of the Internet, research on Cross-Language Information Retrieval (CLIR) is being paid much attention. Existing CLIR approaches based on query translation require parallel corpora or comparable corpora for the disambiguation of translated query terms. However, those natural language resources are not readily available. In this paper, we propose a disambiguation method for dictionary-based query translation that is independent of the availability of such scarce langua ...

Keywords: WWW, cross-language information retrieval, mutual information, search engine

12 Indexing and querying: Sampling search-engine results 

 Aris Anagnostopoulos, Andrei Z. Broder, David Carmel
May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available:  [pdf\(260.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of efficiently sampling Web search engine query results. In turn, using a small random sample instead of the full set of results leads to efficient approximate algorithms for several applications, such as:

- Determining the set of categories in a given taxonomy spanned by the search results;
- Finding the range of metadata values associated to the result set in order to enable "multi-faceted search;"
- Estimating the size of the result set;
- Data ...

Keywords: WAND, sampling, search engines, weighted AND

13 Query processing of semi-structured data: Xpath on steroids: exploiting relational engines for xpath performance 

 Haris Georgiadis, Vasilis Vassalos
June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available:  [pdf\(868.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A lot of research has been conducted by the database community on methods and techniques for efficient XPath processing, with great success. Despite the progress made, significant opportunities for optimization of XPath still exist. One key to further improvements is to utilize more effectively existing facilities of relational RDBSes for the processing of XPath queries. After taking a comprehensive look at such facilities, we present techniques for XPath processing that work by identifying t ...

Keywords: XML, XML reconstruction, XPath, dewey encoding, indices, relational databases, schema mapping, structural joins

14 Boosting the performance of Web search engines: Caching and prefetching query 

 [results by exploiting historical usage data](#)

Tiziano Fagni, Raffaele Perego, Fabrizio Silvestri, Salvatore Orlando

January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(668.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article discusses efficiency and effectiveness issues in caching the results of queries submitted to a Web search engine (WSE). We propose SDC (Static Dynamic Cache), a new caching strategy aimed to efficiently exploit the temporal and spatial locality present in the stream of processed queries. SDC extracts from historical usage data the results of the most frequently submitted queries and stores them in a *static, read-only* portion of the cache. The remaining entries of the c ...

Keywords: Caching, Web search engines, multithreading

15 [Search: Determining the user intent of web search engine queries](#) 



Bernard J. Jansen, Danielle L. Booth, Amanda Spink

May 2007 **Proceedings of the 16th international conference on World Wide Web**
WWW '07

Publisher: ACM Press

Full text available:  [pdf\(195.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Determining the user intent of Web searches is a difficult problem due to the sparse data available concerning the searcher. In this paper, we examine a method to determine the user intent underlying Web search engine queries. We qualitatively analyze samples of queries from seven transaction logs from three different Web search engines containing more than five million queries. From this analysis, we identified characteristics of user queries based on three broad classifications of user inte ...

Keywords: search engines, user intent, web queries, web searching

16 [Approximate and probabilistic processing: Scalable approximate query processing](#) 



[with the DBO engine](#)

Christopher Jermaine, Subramanian Arumugam, Abhijit Pol, Alin Dobra

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available:  [pdf\(369.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes query processing in the DBO database system. Like other database systems designed for ad-hoc, analytic processing, DBO is able to compute the exact answer to queries over a large relational database in a scalable fashion. Unlike any other system designed for analytic processing, DBO can constantly maintain a guess as to the final answer to an aggregate query throughout execution, along with statistically meaningful bounds for the guess's accuracy. As DBO gathers more and ...

Keywords: DBO, online aggregation, randomized algorithms, sampling

17 [Literature-based discovery on the World Wide Web](#) 



Michael Gordon, Robert K. Lindsay, Weiguo Fan

November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(119.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Previous research has shown that researchers can generate medical hypotheses by using computers to analyze several, seemingly unrelated, medical literatures. In this work we

suggest broader application for the ideas of literature-based discovery. Specifically, we suggest that literature-based discovery can be fruitful in areas other than medicine; that in addition to finding "cures" for "problems," literature-based discovery offers the possibility of finding new problems for existing technologies ...

Keywords: Literature-based discovery

18 Clustering user queries of a search engine

 Ji-Rong Wen, Jian-Yun Nie, Hong-Jiang Zhang

April 2001 **Proceedings of the 10th international conference on World Wide Web**
WWW '01

Publisher: ACM Press

Full text available: .pdf(219.35 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: query clustering, search engine, user log, web data mining

19 Browsers and UI, web engineering, hypermedia & multimedia, security, and

 accessibility: Mining search engine query logs for query recommendation

Zhiyong Zhang, Olfa Nasraoui

May 2006 **Proceedings of the 15th international conference on World Wide Web**
WWW '06

Publisher: ACM Press

Full text available: .pdf(96.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This paper presents a simple and intuitive method for mining search engine query logs to get fast query recommendations on a large scale industrial strength search engine. In order to get a more comprehensive solution, we combine two methods together. On the one hand, we study and model search engine users' *sequential* search behavior, and interpret this consecutive search behavior as client-side query refinement, that should form the basis for the search engine's own query refinement proc ...

Keywords: mining, query logs, recommendation, session

20 Usage analysis: Semantic similarity between search engine queries using temporal

 correlation

Steve Chien, Nicole Immorlica

May 2005 **Proceedings of the 14th international conference on World Wide Web**
WWW '05

Publisher: ACM Press

Full text available: .pdf(238.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We investigate the idea of finding semantically related search engine queries based on their *temporal correlation*; in other words, we infer that two queries are related if their popularities behave similarly over time. To this end, we first define a new measure of the temporal correlation of two queries based on the correlation coefficient of their frequency functions. We then conduct extensive experiments using our measure on two massive query streams from the MSN search engine, revealin ...

Keywords: query stream analysis, search engines, semantic similarity among queries

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Optimized filter changes - now a tad faster. - Filter Editor now displays filter definitions with

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Systems and methods for filter table optimization - Patent 20050198065

The method as recited in claim 1, wherein: the **optimized filter engine** further comprises

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resulting **optimized filter** as a .mat file or as a XML file, the CGI script forwards. the **query** to a SMIL and XML server named smilserver.pike. ...

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comprises of an **Inverse** Fast Fourier Transform (IFFT) at the transmitter (and an FFT at

The **optimized filter** coefficients for each class are obtained ...

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In this paper a fault detection scheme for **engine** test-beds is presented. neural networks, and matrix **inverse** control methods are some of the ...

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Manual - Full Text Indexing

Please see the Customizing the Engine for more information. ... similar to what happens with a normal optimized filter expression or SQL WHERE clause.

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Manual - Locking and Concurrency

Internal Locks Used by the Engine There are three types of internal locks ... also acquired during table scans for un-optimized filter or query conditions.

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... and Advantage Database Server was runner-up for "Best Database Engine".

Advanced query and filter optimization via Advantage Optimized Filter ...

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Advantage Database News from Extended Systems

... the Advantage Optimized Filter engine uses multi-segment (composite) ... The Query

Builder now correctly respects the server type set on the open dialog ...

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Parameterized Query Testing via Advantage Data Architect. The Advantage Optimized Filter engine now uses multi-segment (composite) indexes when ...

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The optimized filter is then loaded into the kernel using netlink. ... Emdros has a powerful query language for asking relevant questions of the data.

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Query Tree: *. Figure 5: Implementation structure for space- optimized filter algorithm.

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Address Book Query. Scope: SubTree; DN: root context only; Filter: Mixed combinations of mail, surname, givenname, and cn attributes. Optimized filter ...

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Query filters themselves do not implement these operations. They are passed, along with the other **query** components to a **query engine** which processes them. ...

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Systems and methods for updating a query engine opcode tree ...

The **filter engine** as recited in claim 16, wherein the **optimized** indexed Queries may also be referred to as **filters**, and an inverse **query engine** may ...

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At least one implementation described herein relates to using multiple **filter engines** to **optimize query** processing. A **filter engine** comprises a general ...

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Objectivity Launches Distributed, Parallel Query Engine

Objectivity/PQE -- The new Objectivity Parallel **Query Engine** allows developers to control the amount of local and remote parallelism and **optimize** the range ...

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Federated Query Planning | Dev Central

MetaMatrix products contain a federated **query engine** that executes SQL ... the basic techniques used by a federated **query planner** to **optimize** performance. ...

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The **Query Engine** has to support multiple native **query** languages or dialects. •. A **Query** should be **optimized** automatically. A **Query Transformer** is a set of ...

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Query engine and report writing Software.

It has a **filter** wizard built in either, in 2 different areas as a WHERE clause or ... VisualRep enables the user to run an **optimized query** per report. ...

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iAnywhere formerly Extended Systems | Viewing the Advantage SQL ...

The **SQL engine** uses indexes and **Advantage Optimized Filters** (AOFs) whenever possible to process the **query**. Ideally indexes will be available on every field ...

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